1.  POLARITY

Under “Lab Data & Observations”

* 1. Introduction:
	+ ![C:\Users\lfastovsky\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\3TBSR4RH\MC900440428[1].wmf]()Investigation station: Water, Water Everywhere \_\_\_\_
* Assessment: Water Bending Do Now
	1. Dissolving and Solubility:
* ![C:\Users\lfastovsky\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\3TBSR4RH\MC900440428[1].wmf]()Formula Mass/ Molar Mass: Mini Lesson \_\_\_\_
	+ - Assessment: Formula Mass Do Now
* Understanding molecules \_\_\_\_
* PhET simulation: Sugar and Salt Solutions \_\_\_\_
	+ - Photo Steps of Dissociating & Dissolving \_\_\_\_

Assessment: Fusion Drop Box

* 1. Surface tension:
	+ Investigations:
		- Pennies, Paper clips activity \_\_\_\_
		- Magic Trick: pepper, salt, soap \_\_\_\_
		- Milk soap and food coloring \_\_\_\_
		- Reading the meniscus of a liquid
		- ![C:\Users\lfastovsky\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\3TBSR4RH\MC900440428[1].wmf]()Accuracy & Precision in Measuring: Mini Lesson \_\_\_\_
		- Assessment: Formula Mass Do Now
		- Mercury vs Water \_\_\_\_

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Assessment: Surface Tension Do Now

* 1. Reinforcement Activities (when needed)
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
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WHOLE GROUP: Kool Aid Column Chromatography LAB (summative assessment)

1. Mixtures

Under “Lab Data & Observations”

* 1. Introduction:
	+ Types of Mixtures Mini-Lesson: Heterogeneous vs Homogeneous \_\_\_\_
	+ Type of Homogeneous & Heterogeneous Mixtures \_\_\_\_
		- Assessment: Classifying Matter Activity Do Now
	1. Properties:
* Physical & Chemical Properties
	+ <http://education-portal.com/academy/lesson/matter-physical-and-chemical-properties.html#lesson>
		- Assessment: Do Now \_\_\_\_
* Physical & Chemical changes

**Check in with me here!**

* + <http://education-portal.com/academy/lesson/states-of-matter-and-chemical-versus-physical-changes-to-matter.html#lesson>
		- Assessment: Do Now \_\_\_\_
* Solutions & solubility
	+ Ethanol & water miscibility

 \_\_\_\_

* Separation techniques
	+ Investigations:
		- Chromatography – markers & filter paper \_\_\_\_
			* + Britta filter \_\_\_\_
		- Density Objects – bead bottle, toys \_\_\_\_
		- Magnets – wooly willy, nail polish, levitation \_\_\_\_

**Check in with me here!**

* + - Filtering – k-cups dissection, coffee filters \_\_\_\_
		- Distillation – online
			* worksheet & Particulate diagram \_\_\_\_
	+ Assessment: sand, salt, iron
		- Materials & procedure, % recovery from demo \_\_\_\_



 WHOLE GROUP: **FOUL WATER LAB (Anchor Task)**

1. STATES OF MATTER 

Under “Lab Data & Observations”

* 1. Introduction:
	+ Webquest Investigation S, L, G \_\_\_\_\_
	+ Heating and cooling curve for water intro \_\_\_\_\_
	+ Science terms \_\_\_\_\_
* Do Now – Understanding solids, liquids, and gases



* Do Now – Heating and cooling curve for water
* **Assessment: Phases of water**
	1. Density: Changing water density with solute and temp
	+ Mini lesson accuracy & precision - \_\_\_\_\_ \_\_\_\_\_

**Check in with me here!**

Graduated cylinders & Balances

* + Sugar/Salt water activity \_\_\_\_
* **Assessment: Lab - Density of a Liquid (Anchor Task)**
	+ Real-world Density Situations
		- Halocline, Thermocline, Thermohaline current \_\_\_\_\_
			* Day after tomorrow
			* El Niño
	+ Leidenfrost maze

<http://www.youtube.com/watch?v=vPZ7sx3EwUY> \_\_\_\_\_

* + Super cooling Activity \_\_\_\_\_
	1. Specific Heat :
* Specific Heat Investigations
	+ Ice melting blocks \_\_\_\_
	+ [http://www.amazon.com/Gourmet-Trends-Quick-Defrosting- Tray/dp/B003R248Q0/ref=sr\_1\_1?ie=UTF8&qid=1383327712&sr=8-1&keywords=miracle+thaw+defrosting+tray](http://www.amazon.com/Gourmet-Trends-Quick-Defrosting-%20%20Tray/dp/B003R248Q0/ref%3Dsr_1_1?ie=UTF8&qid=1383327712&sr=8-1&keywords=miracle+thaw+defrosting+tray) \_\_\_\_

**Check in with me here!**

* **Assessment**: Dry Lab- Graph density vs. Specific Heat

WHOLE GROUP: **Assessment**: Specific Heat LAB

* 1. Pollution
* Arsenic & MTBE & Civil Action & Erin Brockovich/Research q’s \_\_\_\_\_